Message

From: d'Almeida, Carolyn K. [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=9EC4401AFA1846DD93D52A0DDA973581-CDALMEID]
Sent: 1/24/2017 10:30:13 PM
To: Stralka, Daniel [Stralka.Daniel@epa.gov]
CC: Henning, Loren [Henning.Loren@epa.gov]
Subject: FW: PID field methods (ST12)

FYI

From: Steve Willis [mailto:steve@uxopro.com]
Sent: Tuesday, January 24, 2017 2:24 PM
To: Davis, Eva <Davis.Eva@epa.gov>; d'Almeida, Carolyn K. <dAlmeida.Carolyn@epa.gov>; Wayne Miller <Miller.Wayne@azdeq.gov>
Subject: RE: PID field methods

With the Rotosonic, they pull up the core barrel and discharge the cutting by vibrating them out of the barrel directly into a heavy duty plastic bag in approximate 2-ft sections. The PID (direct) reading would be the reading taken through a hole in the plastic sleeve containing the cuttings. The PID (bagged) reading would be collected from a ziplock bag on soil removed from the initial plastic bag when the field geologist is checking for odor, staining, and lithology. I think Tiana, the AMEC field geologist used both methods near the bottom of that boring because we weren't getting any odors in those deep samples, but the PID readings weren't changing, and she wanted to see if there was a difference. However, I think moisture buildup in the ziplock bags probably affected those readings. They had a tough time deciding what depth to stop at in that boring, because we weren't detecting any odors, but the PID readings didn't change. That was also the day that they had to shut down operations for a while, because the ambient odor was so bad due to the other team pulling pumps. The City of Mesa rep came out because people in the area were complaining about the smell. That may have affected the PID readings, although you wouldn't think it would have affected the readings taken directly from the core barrel cuttings.

From: Davis, Eva [mailto:Davis.Eva@epa.gov]
Sent: Tuesday, January 24, 2017 3:02 PM
To: d'Almeida, Carolyn K.; Wayne Miller; Steve Willis
Subject: PID field methods

Steve –

When you were doing oversite in the field during the drilling, did you observe them making PID measurements? If so, how did they normally do them?

I'm looking at the boring log for LSZ-57, and on the last 2 pages of it, they give 2 PID readings for each location where they took a reading. In the column marked "PID (ppm) (bagged)" the readings given are all 0.0, but in the column labeled "PID (ppm) (direct) the readings are as high as the 40s and 50s. Looks like we need to understand how they did the PID measurements to know if they are valid –

Eva